



IFWO

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:05

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

3 <110> APPLICANT: Epstein, David
 4 Grate, Dilara
 5 Stanton, Martin
 6 Diener, John L.
 7 Wilson, Charles
 8 McCauley, Thomas
 9 DeSouza, Errol
 11 <120> TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and
 Their
 12 Use as Oncology Therapeutics
 14 <130> FILE REFERENCE: 23239-558A
 16 <140> CURRENT APPLICATION NUMBER: 10/829,504A
 17 <141> CURRENT FILING DATE: 2004-04-21
 19 <150> PRIOR APPLICATION NUMBER: 10/762915
 20 <151> PRIOR FILING DATE: 2004-01-21
 22 <150> PRIOR APPLICATION NUMBER: 60/441357
 23 <151> PRIOR FILING DATE: 2003-01-21
 25 <150> PRIOR APPLICATION NUMBER: 60/463095
 26 <151> PRIOR FILING DATE: 2003-04-15
 28 <150> PRIOR APPLICATION NUMBER: 60/464179
 29 <151> PRIOR FILING DATE: 2003-04-21
 31 <150> PRIOR APPLICATION NUMBER: 60/465055
 32 <151> PRIOR FILING DATE: 2003-04-23
 34 <150> PRIOR APPLICATION NUMBER: 60/469628
 35 <151> PRIOR FILING DATE: 2003-05-08
 37 <150> PRIOR APPLICATION NUMBER: 60/474680
 38 <151> PRIOR FILING DATE: 2003-05-29
 40 <150> PRIOR APPLICATION NUMBER: 60/491019
 41 <151> PRIOR FILING DATE: 2003-07-29
 43 <150> PRIOR APPLICATION NUMBER: 60/512071
 44 <151> PRIOR FILING DATE: 2003-10-17
 46 <150> PRIOR APPLICATION NUMBER: 60/537201
 47 <151> PRIOR FILING DATE: 2004-01-16
 49 <150> PRIOR APPLICATION NUMBER: 60/537045
 50 <151> PRIOR FILING DATE: 2004-01-16
 52 <150> PRIOR APPLICATION NUMBER: 10/718833
 53 <151> PRIOR FILING DATE: 2003-11-21
 55 <150> PRIOR APPLICATION NUMBER: 60/428,102
 56 <151> PRIOR FILING DATE: 2002-11-21
 58 <150> PRIOR APPLICATION NUMBER: 10/826077
 59 <151> PRIOR FILING DATE: 2004-04-15
 61 <150> PRIOR APPLICATION NUMBER: 60/464239
 62 <151> PRIOR FILING DATE: 2003-04-21
 64 <150> PRIOR APPLICATION NUMBER: 60/465053



P.6

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:05

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

65 <151> PRIOR FILING DATE: 2003-04-23
 67 <150> PRIOR APPLICATION NUMBER: 60/474133
 68 <151> PRIOR FILING DATE: 2003-05-29
 70 <150> PRIOR APPLICATION NUMBER: 60/486580
 71 <151> PRIOR FILING DATE: 2003-07-11
 73 <150> PRIOR APPLICATION NUMBER: 60/489810
 74 <151> PRIOR FILING DATE: 2003-07-23
 76 <150> PRIOR APPLICATION NUMBER: 60/503596
 77 <151> PRIOR FILING DATE: 2003-09-16
 79 <150> PRIOR APPLICATION NUMBER: 60/523935
 80 <151> PRIOR FILING DATE: 2003-11-21
 82 <160> NUMBER OF SEQ ID NOS: 98
 84 <170> SOFTWARE: PatentIn version 3.2
 86 <210> SEQ ID NO: 1
 87 <211> LENGTH: 9
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: aptamer
 95 <220> FEATURE:
 96 <221> NAME/KEY: modified_base
 97 <222> LOCATION: (6)..(6) /
 98 <223> OTHER INFORMATION: 2'-Fluoro-Uracil
 100 <220> FEATURE:
 101 <221> NAME/KEY: modified_base
 102 <222> LOCATION: (8)..(8) /
 103 <223> OTHER INFORMATION: 2'-Fluoro-Cytosine
 105 <220> FEATURE:
 106 <221> NAME/KEY: modified_base
 107 <222> LOCATION: (9)..(9)
 108 <223> OTHER INFORMATION: gm
 110 <400> SEQUENCE: 1
 111 caggcuaatg
 114 <210> SEQ ID NO: 2
 115 <211> LENGTH: 12
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Artificial
 119 <220> FEATURE:
 120 <223> OTHER INFORMATION: aptamer
 123 <220> FEATURE:
 124 <221> NAME/KEY: modified_base
 125 <222> LOCATION: (5)..(5) /
 126 <223> OTHER INFORMATION: gm
 128 <220> FEATURE:
 129 <221> NAME/KEY: modified_base
 130 <222> LOCATION: (7)..(7) /
 131 <223> OTHER INFORMATION: gm.
 133 <220> FEATURE:
 134 <221> NAME/KEY: modified_base

9

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:05

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

135 <222> LOCATION: (10)..(10)
 136 <223> OTHER INFORMATION: 2' Fluoro-Uracil
 138 <220> FEATURE:
 139 <221> NAME/KEY: modified_base
 140 <222> LOCATION: (11)..(11)
 141 <223> OTHER INFORMATION: 2' Fluoro-Cytosine
 143 <220> FEATURE:
 144 <221> NAME/KEY: modified_base
 145 <222> LOCATION: (12)..(12)
 146 <223> OTHER INFORMATION: 2'-O-methyl-Adenosine
 148 <400> SEQUENCE: 2
 149 cgtagagcau ca
 152 <210> SEQ ID NO: 3
 153 <211> LENGTH: 9
 154 <212> TYPE: DNA
 155 <213> ORGANISM: Artificial
 157 <220> FEATURE:
 158 <223> OTHER INFORMATION: aptamer
 161 <220> FEATURE:
 162 <221> NAME/KEY: modified_base
 163 <222> LOCATION: (5)..(6)
 164 <223> OTHER INFORMATION: 2'-fluoro-Cytosine
 166 <220> FEATURE:
 167 <221> NAME/KEY: modified_base
 168 <222> LOCATION: (7)..(7)
 169 <223> OTHER INFORMATION: 2'-fluoro-Uracil
 171 <220> FEATURE:
 172 <221> NAME/KEY: modified_base
 173 <222> LOCATION: (8)..(8)
 174 <223> OTHER INFORMATION: gm
 176 <400> SEQUENCE: 3
 177 tgatgcugt
 180 <210> SEQ ID NO: 4
 181 <211> LENGTH: 9
 182 <212> TYPE: DNA
 183 <213> ORGANISM: Artificial
 185 <220> FEATURE:
 186 <223> OTHER INFORMATION: aptamer
 189 <220> FEATURE:
 190 <221> NAME/KEY: modified_base
 191 <222> LOCATION: (4)..(4)
 192 <223> OTHER INFORMATION: 2'-fluoro-Cytosine
 194 <220> FEATURE:
 195 <221> NAME/KEY: modified_base
 196 <222> LOCATION: (4)..(4)
 197 <223> OTHER INFORMATION: 2'-fluoro-cytosine
 199 <220> FEATURE:
 200 <221> NAME/KEY: modified_base
 201 <222> LOCATION: (5)..(5)

12

9

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:05

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

202 <223> OTHER INFORMATION: gm ✓
 204 <220> FEATURE:
 205 <221> NAME/KEY: modified_base
 206 <222> LOCATION: (6)..(6) ✓
 207 <223> OTHER INFORMATION: 2'-fluoro-Uracil
 209 <220> FEATURE:
 210 <221> NAME/KEY: modified_base ✓
 211 <222> LOCATION: (8)..(8)
 212 <223> OTHER INFORMATION: 2'-fluoro-Cytosine
 214 <220> FEATURE:
 215 <221> NAME/KEY: modified_base
 216 <222> LOCATION: (9)..(9) ✓
 217 <223> OTHER INFORMATION: gm
 219 <400> SEQUENCE: 4
 220 cagcguadg/ ✓
 223 <210> SEQ ID NO: 5
 224 <211> LENGTH: 12
 225 <212> TYPE: DNA
 226 <213> ORGANISM: Artificial
 228 <220> FEATURE:
 229 <223> OTHER INFORMATION: aptamer
 232 <220> FEATURE:
 233 <221> NAME/KEY: modified_base
 234 <222> LOCATION: (7)..(7) ✓
 235 <223> OTHER INFORMATION: gm
 237 <220> FEATURE:
 238 <221> NAME/KEY: modified_base
 239 <222> LOCATION: (10)..(10) ✓
 240 <223> OTHER INFORMATION: 2'-fluoro-Uracil
 242 <220> FEATURE:
 243 <221> NAME/KEY: modified_base ✓
 244 <222> LOCATION: (11)..(11)
 245 <223> OTHER INFORMATION: 2'-fluoro-Cytosine
 247 <220> FEATURE:
 248 <221> NAME/KEY: modified_base ✓
 249 <222> LOCATION: (12)..(12)
 250 <223> OTHER INFORMATION: 2'-methyl-Adenosine
 252 <220> FEATURE:
 253 <221> NAME/KEY: modified_base
 254 <222> LOCATION: (12)..(12)
 255 <223> OTHER INFORMATION: 2'-O-methyl-adenosine
 257 <400> SEQUENCE: 5
 258 cgtaccgatg ca ✓
 261 <210> SEQ ID NO: 6
 262 <211> LENGTH: 9
 263 <212> TYPE: DNA
 264 <213> ORGANISM: Artificial
 266 <220> FEATURE:
 267 <223> OTHER INFORMATION: aptamer

9

12

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:05

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

270 <220> FEATURE:
 271 <221> NAME/KEY: modified_base
 272 <222> LOCATION: (6)..(6) /
 273 <223> OTHER INFORMATION: 2'-fluoro-Cytosine
 275 <220> FEATURE:
 276 <221> NAME/KEY: modified_base
 277 <222> LOCATION: (7)..(7) /
 278 <223> OTHER INFORMATION: 2'-fluoro-Uracil
 280 <220> FEATURE:
 281 <221> NAME/KEY: modified_base /
 282 <222> LOCATION: (8)..(8) /
 283 <223> OTHER INFORMATION: gm
 285 <400> SEQUENCE: 6
 286 tgāagcūgt
 289 <210> SEQ ID NO: 7
 290 <211> LENGTH: 23
 291 <212> TYPE: DNA
 292 <213> ORGANISM: Artificial
 294 <220> FEATURE:
 295 <223> OTHER INFORMATION: aptamer
 298 <220> FEATURE:
 299 <221> NAME/KEY: modified_base
 300 <222> LOCATION: (1)..(1) /
 301 <223> OTHER INFORMATION: 2'-O-methyl-adenosine
 303 <220> FEATURE:
 304 <221> NAME/KEY: modified_base /
 305 <222> LOCATION: (2)..(2) /
 306 <223> OTHER INFORMATION: 2'-O-methyl-uracil
 308 <220> FEATURE:
 309 <221> NAME/KEY: modified_base /
 310 <222> LOCATION: (3)..(3) /
 311 <223> OTHER INFORMATION: gm
 313 <220> FEATURE:
 314 <221> NAME/KEY: modified_base
 315 <222> LOCATION: (4)..(4) /
 316 <223> OTHER INFORMATION: cm
 318 <220> FEATURE:
 319 <221> NAME/KEY: modified_base /
 320 <222> LOCATION: (5)..(5) /
 321 <223> OTHER INFORMATION: 2'-O-methyl-adenosine
 323 <220> FEATURE:
 324 <221> NAME/KEY: modified_base /
 325 <222> LOCATION: (6)..(6) /
 326 <223> OTHER INFORMATION: gm
 328 <220> FEATURE:
 329 <221> NAME/KEY: modified_base /
 330 <222> LOCATION: (7)..(9)
 331 <223> OTHER INFORMATION: 2'-O-methyl-uracil
 333 <220> FEATURE:

9

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/829,504A

DATE: 08/04/2004
TIME: 09:16:06

Input Set : A:\23239-558A.Substitute US.ST25.txt
Output Set: N:\CRF4\08042004\J829504A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:50; N Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
Seq#:50; N Pos. 45,46,47,48,49,50,51,52,53,54
Seq#:51; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:51; N Pos. 44,45,46,47,48,49,50,51,52,53
Seq#:52; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:52; N Pos. 44,45,46,47,48,49,50,51,52,53
Seq#:91; N Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
Seq#:91; N Pos. 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:88,89,90,91,92,93,94,95,96,97,98

VERIFICATION SUMMARY

DATE: 08/04/2004

PATENT APPLICATION: US/10/829,504A

TIME: 09:16:06

Input Set : A:\23239-558A.Substitute US.ST25.txt

Output Set: N:\CRF4\08042004\J829504A.raw

L:1007 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (38) SEQUENCE:
L:1012 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (39) SEQUENCE:
L:1017 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (40) SEQUENCE:
L:1022 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (41) SEQUENCE:
L:1027 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (42) SEQUENCE:
L:1032 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (43) SEQUENCE:
L:1037 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (44) SEQUENCE:
L:1042 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (45) SEQUENCE:
L:1047 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (46) SEQUENCE:
L:1052 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (47) SEQUENCE:
L:1057 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (48) SEQUENCE:
L:1062 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (49) SEQUENCE:
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:2110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:2112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:60